NESMELOV, V.V.; MAMINOV, O.V.; TERPILOVSKIY, N.N.; LEBEDEVA, N.M.

Alteration of certain physical properties of paraffin in the process of its oxidation in the foamed condition. Izv. vys. ucheb. zav.; khim. i khim. tekh. 4 no. 2:283-286 '61.
(MIRA 14:5)

1. Kazanskiy khimiko-tekhnologicheskiy institut im. S.M. Kirova. Kafedra obshchey khimicheskoy tekhnologii.
(Paraffins) (Oxidation)

CHASHCHIN, A.M.; LEBEDEVA, N.M.

Continuous vapor-phase production of ethyl acetate. Gidroliz.i lesokhim.prom. 15 no.8:6-8 '62. (MIRA 15:12)

1. TSentral'nyy nauchno-issledovatel'skiy i proyektnyy institut lesokhimicheskoy promyshlennosti.
(Ethyl acetate)

SEDACHEV, V.M.; NESMELOV, V.V.; MOISEYEVA, A.S.; LEBEDEVA, N.M.; KUZNETSOVA, I.M.; LATYPOV, R.Sh.; TERPILOVSKIY, N.N.; MAMINOV, O.V.

Oxidation of paraffin in a foam state. Khim. i tekh. topl. i masel 8 no.5:18-22 My '63. (MIRA 16:8)

LEBEDEVA, N.M.; NESMELOV, V.V.; RYSAYEVA, L.D.; MADYAKINA, R.V.

Selecting the optimum conditions for the oxidation of paraffins in a foam state. Khim.i tekh.topl.i masel 8 no.11:15-20 N '63.
(MIRA 16:12)

1. Kazanskiy khimiko-tekhnologicheskiy institut imeni Kirova.

CHASHCHIN, A.M.; LEBEDEVA, N.M.; PERINYKH, M.S.; VARLAMOVA, A.I.

Removing resinous impurities from technical acetic acid.
Gidroliz. i lesokhim. prom. 16 no.2:10-12 '63.
(MIRA 16:6)

1. TSentral'nyy nauchno-issledovatel'skiy i proyektnyy institut lesokhimicheskoy promyshlennosti.
(Acetic acid)

ORLOV, I.V., kand.tekhn.nauk; BEREZNENKO, N.P. [Bereznenko, M.P.]; LEBEDEVA, N.M. [Lebedieva, N.M.]; SAVOSINA, T.V.; TSYMBANENKO, T.Ye. [TSymbanenko, T.IE.]

Systems for steam-pressing of clothing made from nonwoven fabrics. Leh.prom. no.2:7-12 Ap-Je '65. (MIRA 18:10)

L 41352-65 EWT(m)/EPF(c)/T Pr-4 DJ
ACCESSION NR: AP5000501 S/0065/63/000/005/0018/0022

AUTHOR: Shchadachev, V. M.; Nesmelov, V. V.; Moyseyeva, A. S.; Lebedeva, N. M.; Kuznetsova, I. M.; Latypov, R. Sh.; Terpilovskiy, N. N.; Maminov, O. V.

TITLE: Oxidation of paraffin in the foam state

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 5, 1963, 18-22

TOPIC TAGS: synthetic lubricant, continuous oxidation, bubble column, paraffin fraction, paraffin oxidation

ABSTRACT: The Kazan' Synthetic Lubricant Plant in cooperation with the Kazan' Institute of Chemical Technology, has developed a new process for oxidizing highly foamed paraffin up to carboxylic acids. This continuous process was adopted on a pilot-plant scale in 1961. The new continuous foam process increases the yield up to 270% as compared with the previous process. The author gives the processing data and diagrams of equipment used, as well as a breakdown of the paraffin fractions and their specifications. The basic operating parameters are: temperature, 125 - 130°C; air consumption, 1 m^3/kg of oxidized paraffin; acid number of oxidate, 50 - 60 mg of KOH. In order to obtain good air dispersion, the use of screens in

Card 1/2

L 41352-65
ACCESSION NR: AP5000501

the bubble column is recommended. The final product meets the requirement placed on synthetic petroleum products. Orig. art. has: 5 tables and 2 diagrams.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: OC, IE

NO REF SOV: 000 OTHER: 000

Card 2/2

NESMELOV, V.V.; LEBEDEVA, N.M.; LATYPOV, R.Sh.; MAMINOV, O.V.; RYSAYEVA, L.D.

Continuous oxidation of hydrocarbon raw materials in the foam state. Khim. i tekh. topl. i masel 10 no.3:23-25 Mr '65. (MIRA 18:11)

1. Kazanskiy khimiko-tekhnologicheskiy institut im. S.M. Kirova.

LEBEDEVA, N.M.; NESMELOV, V.V.; LATYPOV, R.Sh.

Experimental industrial testing of the continuous method of paraffin oxidation. Khim. i tekh. topl. i masel 10 no.7:32-35 Jl '65.
(MIRA 18:9)

1. Kazanskiy khimiko-tekhnologicheskiy institut im. S.M.Kirova.

MAMINOV, O.V.; LEBEDEVA, N.M.

Analyzing the work of industrial units with continuous action for the oxidation of paraffin in a foaming state. Khim. i tekh. topl. i masel 10 no.9:28-31 S '65. (MIRA 18:9)

1. Kazanskiy khimiko-tekhnologicheskiy institut.

LEBEDEVA, N.N.

USSR/Human and Animal Physiology. Neuro-Muscular Physiology. T

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36797.

Author : Lebedeva, N.N.
Inst : Leningrad Sanitary-Hygiene med. Institute and Pediatric Orthopedic Institute.
Title : The Role of the Nervous System in Changes of Physiological Properties of Isolated Muscles Subjected to Tension.

Orig Pub: Tr. Leningr. san. gigien med. in-ta in.-i ortoped. in-ta 1956, 20, 118-126.

Abstract: The phenomenon of intensification of contractions of factigued muscle by additional load (20-50 gm) was obtained in different striated muscles of the frog. The value of the intensification of contractions of the fatigued muscle by stretching was not remarkable

Card : 1/3

USSR/Human and Animal Physiology. Neuro-Muscular Physiology. T

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36797.

in all the muscles. Under the effect of an additional load this value was not identical in all the muscles (the greatest value was in muscles with parallel fibers and in muscles capable of intense stretching). It was possible to demonstrate the phenomenon of contraction even with very small initial stretching. In the gastroenemius preparation, a stimulating effect (not predominating) of the sympathetic innervation on the effect under study was noted. Increase of contractions with additional load was observed only in stimulation of segments of muscles rich in nerve endings, but was absent in stimulation of segments deprived of nerves. Consequently the increase of contractions under conditions of additional load depends exclusively on the condition of the

Card : 2/3

USSR/Human and Animal Physiology. Neuro-Muscular Physiology. T

GARIN, N.D., ZHELOKHOVTSEVA, N.N., LEBEDEVA, N.N., SIGBATULIN, A.Kh.

A quest for new surgical suture materials [with summary in English]
Khirurgiia 34 no.7:142-147 Jl '58 (MIRA 11:9)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentov Ministerstva zdravookhraneniya SSSR (dir. M.G. Anan'yev).
(SUTURES,
research on new surg. suture materials (Rus))

ZHELUDKOV, Aleksey Petrovich, kand. ekon. nauk. Prinimali uchastiye: TERGOYEVA, Ye.P.; SHIMETKINA, A.V.; LEBEDEVA, N.N.; BELOV, M., red.; SKVORTSOVA, L., tekhn. red.

[Discussions on the fundamentals of the economics of socialistic agricultural production] Besedy po osnovam ekonomiki sotsialisticheskogo sel'skokhoziaistvennogo proizvodstva. Kostroma, Kostromskoe knizhnoe izd-vo, 1960. 220 p. (MIRA 14:12)

1. Zaveduyushchiy kafedroy ekonomiki i organizatsii sel'skokhozyaystvennogo proizvodstva Kostromskogo sel'skokhozyaystvennogo instituta "Karavayevo" (for Zheludkov). 2. Kafedra ekonomiki i organizatsii sel'skokhozyaystvennogo proizvodstva Kostromskogo sel'skokhozyaystvennogo instituta "Karavayevo" (for Tergoyeva, Shimetkina, Lebedeva).
(Agriculture—Economic aspects)

MIRZOYEV, B.R.; ZEYNALLY, A.Kh.; LEBEDEVA, N.N.

Some properties of 50% alloys of antimony selenide and sulfide.
Uch. zap. AGU. Ser. fiz.-mat. i khim. nauk no.4:95-98 '61.
(MIRA 16:6)

(Antimony alloys--Spectra)

S/080/61/034/002/007/025
A057/A129

AUTHORS: Lebedeva, N.N., Yerkova, L.N., Smirnov, N.I., Fermor, N.A.

TITLE: Investigation into concentration of synthetic latex by the method of evaporation in an air flow

PERIODICAL: Zhurnal Prikladnoy Khimii, v 34, no 2, 1961, 319-323

TEXT: In one of the Soviet plants for synthetic rubber the concentration of latex is carried out in an air flow in a rotating horizontal drum, which is heated with hot water. Since this apparatus will be used in several new plants, in the present work the effect of various factors on the evaporation process was studied in such an apparatus (Fig 1). The drum-shaped concentrator (1) is 402 mm long and 140 mm in diameter. It is made of glass and has two openings, the inlet (2) and outlet (3) for the air. The concentrator is inserted in a water tank (4) and by electrical heating (5) the temperature is kept constant. The latter was controlled

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Inveatigation into contamination ...

by thermoelements (6) and (7) with a milliammeter (8). Rotation is ensured by a motor with a reduction gear (9). Air is supplied by a vacuum cleaner (10) (type "Ural-4M") through a gas meter (11). Two series of experiments were carried out, i.e., periodical (as in the plant) and continuous concentrations. In continuous concentrations the latex was supplied from the funnel (12) through the tube (13) in portions into the concentrator and the concentrated latex passed through the outlet (3) into the container (14). The process was controlled by determining the dry substance in samples taken every 0.5 hr from (14). Investigations of different types of latex СКС-30ГП (SKS-30GP), СКС-50ГП (SKS-50GP), СКС-65ГП (SKS-65GP), and СКС-50ПГ (SKS-50PG) showed little or no effect of the composition of the latex on the concentration process. In the present investigations concentration of SKS-50PG latex was studied at a concentrator rotation rate of 30 rpm, dry residue contents from 19 to 55% and temperature of 40°C (some at 50°C). According to equations for the evaporation of liquids from a surface (Ref 3: V.V. Kafarov, ZhPKh, 30, 10, 1456 (1957) criteria Nu' and Re were determined from $Nu' = kd_{equiv.}/D$; $Re = wd_{equiv.}\gamma/\mu g$

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($d_{equiv.}$ = equivalent diameter of the cross-section of the concentrator not covered by the latex (in m), D = diffusion coefficient of steam in air (m^2/sec), w = linear velocity of air in the concentrator (m/sec), γ and μ = density (kg/cm^3) and viscosity (kg·sec/m^2) of the initial air, k = mass transfer coefficient). The value for k was determined for the batch process from $k = G/F\Delta c\tau$, and for the continuous process from $k = G_{sec}/F\Delta c$ (G = amount of evaporated water (kg) in the periodical run in the τ time (sec), G_{sec} = amount of evaporated water (kg/sec) in the continuous run, F = surface of evaporation (m^2), Δc = mean moving force (kg water per m^3 dry air)). The function $Nu' = f(Re)$ plotted in logarithmic coordinates indicates that experimental data are on a straight line expressed by $Nu' = 0.830\ Re^{0.5}$. This equation can thus be used for practical calculations of concentration apparatus in intervals where the criterion Re changes from 400 to 1,700, and Nu' from 16 to 36. Results obtained in the present work were presented in Table 1 and 2. There are 2 figures, 2 tables and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc. The latter reads as follows: T.K. Sherwood, R.L. Pigford, Absorption and Extraction (1952).

SUBMITTED: July 9, 1960
Card 3/7

LEBEDEVA, N.N.; YERKOVA, L.N.; SMIRNOV, N.I.; FERMOR, N.A.

Study of the effect of some factors on the process of concentrating synthetic latexes. Zhur.prikl.khim. 35 no.1:201-204 Ja '62. (MIRA 15:1)

(Rubber, Synthetic)

Lebedeva, N.N.

KORITYSSKIY, Ya. I., kandidat tekhnicheskikh nauk.; LEBEDEVA, N.N., inzhener.

Variations in the speed of a spindle. Tekst. prom. 17 no.4:26-29 Ap '57.
(Silk manufacture) (Spinning machinery) (MLRA 10:4)

KORITYSSKIY, Ya.I.; KUZNETSOV, V.S.; KORNEV, I.V.; LEBEDEVA, N.N.

High-lifting spindles for large packages. Biul.tekh.-ekon.inform. no.11:55-57 '59. (MIRA 13:4)
(Spinning machinery)

USSR

IVANOV, Sergey Savel'yevich, kand. tekhn.nauk; LEBEDEVA, Nina Nikolayevna; NILOVA, Varvara Ivanovna; TSISHEVSKIY, Ivan Nikolayevich, kand. tekhn. nauk; Prinimali uchastiye: EYGES, Ye.G.; PLEKSER, L.A.; SOLOV'YEV, A.N., dokt.tekhn.nauk, prof., retsenzent; ABRAMCHUK, N.N., inzh., retsenzent; CHUGREYEVA, V.N., red.; TRISHINA, L.A., tekhn. red.; VINOGRADOVA, G.A., tekhn. red.

[Methods of determining the properties of cotton fibers] Metody opredeleniia svoistv khlopka-volokna. Pod red. S.S.Ivanova. Moskva, Rostekhizdat, 1962. 234 p. (Cotton--Testing) (MIRA 16:2)

IVANOV, S.S., kand.tekhn.nauk; LEBEDEVA, N.N., starshiy nauchnyy sotrudnik

Utilize on a wider scale the achievements of research in production. Tekst. prom. 21 no.10:8-12 O '61. (MIRA 14:10)

1. Zamestitel' direktora po nauchnoy chasti TSentral'nogo nauchno-issledovatel'skogo instituta khlopchatobumazhnoy promyshlennosti (for Ivanov). 2. TSentral'nyy nauchno-issledovatel'skiy institut khlopchatobumzhnoy promyshlennosti (for Lebedeva).
(Textile industry)

IVANOV, S.S., kand. tekhn. nauk; LEBEDEVA, N.N.

Science achievements to be put at the service of the seven-year plan. Tekst. prom. 23 no.12:4-9 D '63. (MIRA 17:1)

1. Zamestitel' direktora TSentral'nogo nauchno-issledovatel'skogo instituta khlopchatobumazhnoy promyshlennosti (for Ivanov). 2. Uchenyy sekretar' TSentral'nogo nauchno-issledovatel'skogo instituta khlopchatobumazhnoy promyshlennosti (for Lebedeva).

KORITYSSKIY, Ya.I., kand. tekhn. nauk; LEBEDEVA, N.N., inzh.; TOLPYGINA, G.P., inzh.

Effect of the dynamic unbalance and quality of the cops on spindle vibration. Nauch.-issl. trudy VNIILTEKMASHa no.10:160-165 '63. (MIRA 18:2)

38304 LEBEDEVA, N. N.

O primenenii lidola v klinike vnutrennikh bolezney. Sov. meditsina, 1949, No 12, s. 23-24

LEBEDEVA, N.N.

Peculiarities in the clinical aspects of reactive conditions arising against a background of vascular disorders of the brain. Probl.sud.psikh. 8:291-307 '59. (MIRA 13:6)
(Mental illness) (Brain)

LEBEDEVA, N.N.

Treatment of reactive conditions by prolonged medication sleep.
Probl.sud.psikh. 8:339-344 '59. (MIRA 13:6)
(Mental illness) (Sleep--therapeutic use)

LEBEDEVA, N.N. (Moskva)

Characteristics of reactively conditioned mental disorders in patients with vascular diseases of the brain. Probl.sud.psikh. 9:202-207 '61. (MIRA 15:2)
(MENTAL ILLNESS) (BRAIN—DISEASES)

ZOLOTAREV, [illegible]; [illegible], N.N.

[illegible] Tekst. prom. 25 no.7:1-[illegible] Jl '65. (MIRA 18:8)

1. [illegible] Tsentral'nogo nauchno-issledovatel'skogo instituta [illegible] promyshlennosti (TSNIIKhBI) (for Zolotarev). 2. Uchenyy sekretar' TSentral'nogo nauchno-issledovatel'skogo instituta [illegible] promyshlennosti (TSNIIKhBI) (for [illegible]).

LEBEDEVA, N.N., nauchnyy sotrudnik; SAFONOVA, A.I., nauchnyy sotrudnik; KORNEV, I.V., nauchnyy sotrudnik; STEPANOVA, Z.S., nauchnyy sotrudnik; SHIPOV, M.G.

Reducing the wear of spindle pins due to the continuous lubricant filtration in their bushings. Tekst. prom. 25 no.4:69-71 Ap '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut legkogo i tekstil'nogo mashinostroyeniya (for Lebedeva, Safonova, Kornev). 2. Ivanovskiy energeticheskiy institut im. Lenina (for Stepanova). 3. Nachal'nik energotsekha Krasnovolzhskogo khlopchatobumazhnogo kombinata (for Shipov).

ACC NR: AP6036956 (A, N) SOURCE CODE: UR/0181/66/008/011/3196/3200

AUTHOR: Korsunskaya, N. Ye.; Lebedeva, N. N.; Sheynkman, M. K.

ORG: Institute of Semiconductors, AN UkrSSR, Kiev (Institut poluprovodnikov AN UkrSSR)

TITLE: Low-temperature photochemical reactions in In_4S_5 single crystals

SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3196-3200

TOPIC TAGS: indium compound, sulfide, photochemistry, photoelectric property

ABSTRACT: The electric and photoelectric properties of In_4S_5 single crystals were investigated. At low temperatures, a strong dependence of the photoelectric properties on the conditions of cooling and illumination of the samples was observed. This is shown to be due to the photochemical formation of new types of trapping centers (t-centers) and sensitizing recombination centers (r-centers), as in the case of CdS, which was studied earlier. The main parameters of these centers were determined. The forbidden gap width, hole mobility, spectral and temperature characteristics of the photocurrent, temperature dependences of the dark current, etc. were measured. It is concluded that the formation of new types of r-centers in CdS and In_4S_5 provides information of the nature of "ordinary" r-centers, since their properties - small cross section of capture of majority carriers and large ratio of capture cross sections of carriers of both signs - are similar. Authors thank V. Ye. Lashkarev for a

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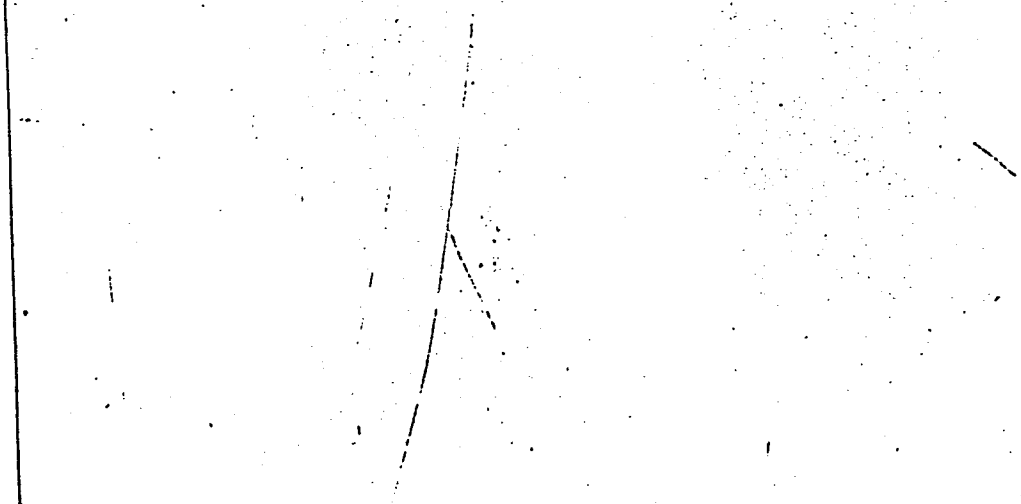
ACC NR: AP6036956

useful discussion. Orig. art. has: 5 figures and 2 tables.

SUB CODE: 20/ SUBM DATE: 25Feb66/ ORIG REF: 006/ OTH REF: 011



Card 2/2

LEBEDEVA, N.P.

Action of oxidation-reduction processes in cotton in relation to ethylmercuric chloride treatment of seeds before planting. Izv.Otd. est.nauk AN Tadzh.SSR no.11:33-38 '55. (MLRA 9:10)

1.Otdel khlopkovodstva Akademii nauk Tadzhikskoy SSR.
(Cotton growing)

LEBEDEVA, N. P.

AUTHORS: Korenman, I. M., Ganina, V. G., Lebedeva, N. P. 78-3-5-36/39

TITLE: Solubility of Thallium Chromate (Rastvorimost' khromata talliya)

PERIODICAL: Zhurnal Neorganicheskoy Khimii, 1958, Vol 3, Nr 5, pp 1265-1267 (USSR)

ABSTRACT: The solubility of thallium chromate in acqueous solutions of some binary and trinary electrolytes in ammoniacal buffer solution as well as in trilon-B-solution was determined.
The solubility of thallium chromate at 20°C in water is 0,042 ± 0,001 g/l. The solubility product amounts to $2{,}0 \cdot 10^{-12}$. The solubility of thallium chromate in 0,1 - - 1 n - solutions of sulfates and nitrates of potassium and ammonium was determined, and it thence results that the solubility of thallium chromate increases according to the increasing concentration of the electrolyte. The solubility of thallium chromate is, in solutions of ammonium salts, higher than in solutions of potassium salts. The solubility of thallium chromate is especially high in acqueous solutions of trilon-B, in which case a complex

Card 1/2

Solubility of Thallium Chromate 78-3-5-36/39

compound of thallium with trilon-B is formed.
There are 4 tables and 5 references, 1 of which is Soviet.

ASSOCIATION: Gor'kovskiy gosudarstvennyy universitet im. N. I. Lobachevskogo (Gor'kiy State University imeni N. I. Lobachevskiy)

SUBMITTED: July 8, 1957

AVAILABLE: Library of Congress

1. Thallium chromate--Solubility

Card 2/2

LEBEDEVA, N.S.

Phylum Protozoa. Trudy SMIIOGIMS no.21:100-115 '62. (MIRA 16:12)

LEBEDEVA, N. S.

"Aleksey Vsevolodovich Rubyantsev (Deceased)" Arkhiv. Patol., 11, No. 2, 1949.

Chair of Histology, Moscow Med. Inst. Min. Public Health RSFSR

LEBEDEVA, N. S.

GORLOV, G. V., LEBEDEVA, N. S., and MOROSOV, V. M. (Acad. Sci. USSR)

"Small Angle Scattering of D-D Neutrons by Pb"

paper submitted at the All-Union Conf. on Nuclear Reactions in Medium and Low Energy Physics, Moscow, 19-27 Nov 57.

39113
S/058/62/000/006/014/136
A061/A101

24.6500

AUTHORS: Zubov, Yu.G.; Lebedeva, N.S.; Morozov, V.M.

TITLE: Inelastic scattering of 3.2-4.5-Mev neutrons from beryllium

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 44 - 45, abstract 6B318. (In collection: "Neytron. fizika". M., Gosatomizdat, 1961, 298 - 305)

TEXT: The cross section of the Be^9 (n, 2n) Be^8 reaction was measured. A Be target, placed on the axis of a circular channel in the center of an organic glass moderator block, was irradiated by a collimated neutron beam from the d-d reaction. Preliminarily moderated secondary neutrons were recorded by BF_3 counters arranged on the surface of three concentric cylinders which were coaxial with the channel. It was possible to connect groups of counters in coincidence. The cross section of the (n, 2n) reaction was determined by comparing the full number of counts in Be-target operation with the number of counts in carbon-target operation (the latter target was used to estimate the elastic scattering of neutrons), and also by recording the coincidences of neutron counts in groups of counters. The cross section of the Be^9 (n, 2n) Be^8 reaction for neutron energies of 3.2; 3.7; 4.1 and 4.5 Mev was 0.8 ± 0.1; 0.73 ± 0.0; 0.53 ± 0.07 and 0.45 ± 0.05 barn,

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S/058/62/000/006/014/136
A061/A101

Inelastic scattering.....

respectively. The mechanism of (n, 2n) reaction on Be consists in the neutron emission by the excited 2.43-Mev Be^{9*} nucleus forming after inelastic neutron scattering. The latter is due to the fact that the reaction does not progress in the range of 1.8 - 2.7 Mev, where it is possible from the energy conditions, but its cross section grows rapidly, starting from energy E_n = 2.70 Mev, above which the excitation of the 2.43-Mev level is possible.

[Abstracter's note: Complete translation]

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GORLOV, G. V.; LEBEDEVA, N. S.; MOROZOV, V. M.

"Elastic scattering of polarized neutrons by the nuclei."

report submitted for IAEA Intl Nuclear Data Sci Working Group Mtg, Vienna, 9-13 Nov 64.

L 11456-65 EWT(m) DIAAP/SSD/ASD(a)-5/AFWL/AFETR/ESD(gs)/ESD(t)

ACCESSION NR: AP4046371 S/0020/64/158/003/0574/0577

AUTHORS: Gorlov, G. V.; Lebedeva, N. S.; Morozov, V. M. B

TITLE: Elastic scattering of polarized neutrons by the nuclei Be-9, C-12, Co-59, Ni-62, Se-80, Nb-93, Cd-114, In-115, Sn-118, I-127, Pb, and Bi-209

SOURCE: AN SSSR. Doklady*, v. 158, no. 3, 1964, 574-577

TOPIC TAGS: neutron scattering, polarization, elastic scattering, angular distribution, scattering cross section, diffraction pattern, spin orbit interaction, polarizability

ABSTRACT: The authors report briefly the main experimental results of the elastic scattering of polarized neutrons with energy 4.00 ± ± 0.05 MeV. The differential cross sections for elastic scattering were measured in a plane perpendicular to the direction of the neutron polarization vector, in a scattering angle range from 10 to 170°

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L 11456-65
ACCESSION NR: AP4046371

left and right of the direction of the scattered-neutron beam. The measurements were made in steps of 10° with a resolution of 4°. The polarized neutron source was the reaction d(d, n)He^3 (E_d = 1200 ± ± 50 keV). The scattering substances were in the form of cylinders 20--25 mm in diameter and 60 mm high. The scattered neutrons were detected with 6 scintillation counters arranged in symmetrical pairs relative to the beam of the scattered neutrons. Corrections were introduced for various background effects. Plots of the angular distributions of the scattering cross section and of the polarization are presented. The angular dependence of the differential cross sections exhibits a typical "diffraction" character and varies smoothly with variation of the atomic weight. The observed appreciable polarizability indicates that the spin-orbit interaction plays an important role in the elastic scattering of the neutrons at the energy employed in the experiment. Although the results do not confirm the assumption made by L. S. Rodberg (Nucl. Phys. v. 15, 72, 1960) that the polarizability should vanish at the maxima

Card 2/3

L 11456-65

ACCESSION NR: AP4046371 2

and minima of the differential cross sections, some correlation between the two quantities is observed, and it can be stated that the number of times that the polarizability goes through zero is equal to the number of extrema of the differential cross section for the scattering of unpolarized neutrons. This report was presented by A. P. Aleksandrov. Orig. art. has: 2 figures.

ASSOCIATION: Institut atomnoy energii im. I. V. Kurchatova Akademii nauk SSSR (Institute of Atomic Energy, Academy of Sciences SSSR)

SUBMITTED: 07Apr64 ENCL: 00

SUB CODE: NP NR REF SOV: 001 OTHER: 002

Card 3/3

FRIDLYANDER, I.N. (Moskva); ROMANOVA, O.A. (Moskva); ARCHAKOVA, Z.N. (Moskva); Prinimali uchastiye: REZNIK, P.G.; LEBEDEVA, N.S.

Mechanical properties of heat-resistant aluminum alloys with lithium and cadmium. Izv.AN SSSR. Otd.tekh.nauk. Met.i topl. no.4:82-89 Jl-Ag '62. (MIRA 15:8)
(Aluminum alloys--Testing)
(Heat-resistant alloys--Testing)

BOGOMOLOVA, O.R.; LEBEDEVA, N.S.; SAVCHENKO, Ye.D.; KRYUCHKOVA, G.S.

Problem of tissue reactions to tantalum. Khirurgiia 32 no.3:69-72 Mr '56. (MLRA 9:7)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentov Ministerstva zdravo-okhraneniya SSSR (dir. instituta M.G.Anan'yev, nauchnyy rukovoditel' raboty - zasluzhennyy deyatel' nauki chlen-korrespondent Akademii meditsinskikh nauk SSSR prof. B.N.Mogil'nitskiy [deceased]

(TANTALUM,
clamps for sutures & anastomoses, tissue reactions in exper. application (Rus))
(SUTURES,
tantalum clamps in exper. surg., tissue reactions (Rus))
(SURGERY, OPERATIVE,
tantalum clamps for sutures & anastomoses, tissue reactions in animals (Rus))

Novyye khirurgicheskie apparaty i instrumenty i opyt ikh primeneniye (New Surgical Equipment and Instruments and Experience in Their Use) NO. 1, Moscow, 1957 A collection of Papers of the Scientific Research Inst. for Experimental Surgical Equipment and Instruments.

NIEKhAI

SIVASH, K.M.; LEBEDEVA, N.S.

Fixation of the spine witn acrylic disks. Trudy NIIEKHAI no.5:209-215 '61. (MIRA 15:8)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov.
(SPINE--SURGERY) (PLASTICS IN MEDICINE)

LAPCHINSKIY, A.G.; LEBEDEVA, N.S.

Preservation of tissues and organs by deep cooling; preliminary report. Trudy NIIEKHAI no.5:221-226 '61. (MIRA 15:8)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov.
(TISSUES--PRESERVATION)

FEDOROV, S.F.; SYRKIN, Z.N.; LEBEDEVA, N.S.

Catgut with a prolonged absorption period. (A new method for its management). Khirurgiia no.11:96-99 '61. (MIRA 14:11)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentov (dir. M.G. Anan'yev) Ministerstva zdravookhraneniya SSSR.
(GATGUT SUTURES)

LAPCHINSKY, A.G.; LEBEDEVA, N.S.

Transplantation of rabbit skin conserved by freezing in liquid nitrogen at-196° C. Acta chir. plast. 4 no.2:89-101 '62.

1. Institute of Experimental Surgical Apparatus and Instruments, Moscow (U.S.S.R.) Director: M.G.Ananyev.
(SKIN TRANSPLANTATION exper.)

ACC NR: AP6020689 SOURCE CODE: UR/0016/66/000/006/0121/0126

AUTHOR: Balykova, L. A.; Verkholetova, G. P.; Lebedeva, N. S.; Limanov, V. Ye.; Starkov, A. V.

ORG: Central Disinfectant Research Institute, Moscow (Tsentral'nyy nauchno-issledovatel'skiy dezinfektsionnyy institut

TITLE: Solubility and bactericidal activity of 1,3-dichloro-5,5-dimethyl hydantoin in the presence of surface-active substances

SOURCE: Zh mikrobiol, epidemiol i immunobiol, no. 6, 1966, 121-126

TOPIC TAGS: bactericidal ~~compound~~, solubility, surface active agent ~~substance/Sulfonol~~, ~~OP-10, Tetramon~~ chlorinated organic compound

ABSTRACT: The water solubility of this compound increased considerably in the presence of such surface-active compounds as sulfonol, OP-10, and tetramon. In the presence of sulfonol, aqueous solutions of dichlorodimethylhydantoin did not lose their active chlorine content or their high bactericidal and sporicidal activity, even after standing. [WA-50; CBE No. 10]

SUB CODE: 06/07/SUBM DATE: 16Feb65/ ORIG REF: 001/ OTH REF: 010/

Card 1/1 UDC: 615.778.38-011+615.778.38-017.78]:661.85

FRIDLYANDER, I.N.; ROMANOVA, O.A.; ARCHAKOVA, Z.N.; GUR'YEV, I.I.; DRONOVA, N.P.; PETROVA, A.A.; BYCHKOVA, Z.S.; Prinimali uchastiye: FOMIN, K.N.; LEBEDEVA, N.S.; REZNIK, P.G.; AVERKINA, N.; ZHELTOVSKAYA L.S.; VOROB'YEV, Yu.A.; TYURIN, N.N.

Manufacture and investigation of semifinished products from high-strength and heat-resistant VAD23 aluminum alloys. Alium. splavy no.3:194-200 '64. (MIRA 17:6)

GROZDILOVA, L.P.; LEBEDEVA, N.S.

Foraminifera of the lower Carboniferous and of the Bashkirian stage of the middle Carboniferous in the Kolva-Visherka region. Trudy VNIGRI no.81:4-236 '54. (MLRA 8:5)
(Kolva Valley--Foraminifera, Fossil) (Visherka Valley--Foraminifera, Fossil)

LEBEDEVA, N.S.

Foraminifera of the lower Carboniferous in the Kuznetsk Basin.
Trudy VNIGRI no.81:237-320 '54. (MLRA 8:5)
(Kuznetsk Basin--Foraminifera, Fossil)

LEBEDEVA, N.S.

Foraminifera of Etrosungtian deposits in the Tengiz Depression. Trudy VNIGRI no.98:39-59 '56. (MLRA 10:4)
(Tengiz depression--Foraminifera, Fossil)

LEBEDEVA, N.S.

TEODOROVICH, G.I.; GROZDILOVA, L.P.; LEBEDEVA, N.S.

An attempt to subdivide the Bashkirian stage of the Bashkirian highland according to Foraminifera fauna. Dokl. AN SSSR 111 no.2:434-437 N '56. (MIRA 10:1)

1. Predstavleno akademikom S.I. Mironovym.
(Bashkiria--Geology, Stratigraphic) (Foraminifera, Fossil)

3(0)

AUTHORS: Teodorovich, G. I., Grozdilova, L. P., Lebedeva, N. S., Khachetryan, R. O.

SOV/20-124-5-45/62

TITLE: On the Subdivision of the Lower Visean and the Adjoining Strata of the Tournaisian of the Bashkiriya Highland According to the Foraminiferal Fauna (K podrazdeleniyu nizhnego vize i pogranichnykh sloyev vize-turne gornoy Bashkirii po faune foraminifer)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 5, pp 1120-1123 (USSR)

ABSTRACT: The problem of the boundary between the Tournaisian stage and the Visean has been clearly solved neither in Western Europe nor in the USSR: the zone containing the Productus sublaevis is classified by several scientists as belonging to the Visean, by others as Tournaisian. Formerly, there was even a "Warnantien" (?) stage in Belgium which as transition zone corresponded to the topmost parts of the reliable Tournaisian (Refs 1,7). The 2nd and 3rd author investigated the foraminiferal material collected by the 1st and the 4th author in the transition strata along the Usuyli river (catchment area

Card 1/3

On the Subdivision of the Lower Visean and the Adjoining Strata of the Tournaisian of the Bashkiriya Highland According to the Foraminiferal Fauna

SOV/20-121-5-45/62

of the Zilim river) on the western side of the southern Ural. On the basis of the distribution of micro- and macrofauna the cross section investigated is then divided into 3 groups. A 4th complex deviating from the lithological point of view, must be added. The authors arrived at the following conclusions: 1) In the Bashkiriya highland analogues of the Aleksinskiy and partly of the Tul'skiy stage of the Podmoskovnyy basin as well as apparently of the Stalinogorskiy horizon were observed. 2) In the southern Ural a horizon was observed with a mixed Tournaisian-Visean complex of Foraminifera, which corresponds to the strata with Productus sublaevis. 3) In the cross sections investigated primarily the upper part of the so-called Lun'yevskiy horizon belonging to the Visean is represented which had been separated already earlier in the central and northern Ural. This part differs from complete cross sections of the horizon (Ref 2) by monotonous material of species and by scarcity of the "tournayella", moreover by other scarcely distributed Tournaisian forms, on the other hand, however, by a great variety of Visean species.

Card 2/3

On the Subdivision of the Lower Visean and the Adjoining Strata of the Tournaisian of the Bashkiriya Highland According to the Foraminiferal Fauna

SOV/20-124-5-45/62

The lower part of the Lun'yevskiy horizon of the central Ural possibly belongs to the upper part of the Tournaisian. There are 7 references, 6 of which are Soviet.

ASSOCIATION: Institut nefti Akademii nauk SSSR (Petroleum Institute of the Academy of Sciences, USSR)

PRESENTED: October 11, 1958, by S. I. Mironov, Academician

SUBMITTED: October 11, 1958

Card 3/3

TEODOROVICH, G.I.; GROZDILOVA, L.P.; LEBEDEVA, N.S.

Subdividing the Bashkir stage in Bashkir mountains on the basis of Foraminifera. Biul. MOIP. Otd. geol. 34 no.6:103-115 N-D '59. (MIRA 14:3)

(Bashkiria--Geology, Stratigraphic)
(Foraminifera, Fossil)

GROZDILOVA, Lyudmila Pavlovna; LEBEDEVA, Nadezhda Sergeyevna; TRIZNA, V.B., nauchnyy red.; DESHAL'T, M.G., vedushchiy red.; YASHCHURZHINSKAYA, A.B., tekhn. red.

[Foraminifers in the Carboniferous on the western slope of the Urals and the Timan Ridge; atlas of more representative species]. Foraminifery kamennougol'nykh otlozhenii zapadnogo sklona Urala i Timana; atlas naibolee kharakternykh vidov. Leningrad, Gostoptekhizdat, 1960. 263 p. (Leningrad. Vsesoiuznyi neftianoi nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy, no.150).

(MIRA 16:4)

(Ural Mountains--Foraminifera, Fossil)
(Timan Ridge--Foraminifera, Fossil)

GROZDILOVA, L.P.; LEBEDEVA, N.S.

Lower Permian Foraminifera of the northern Timan. Trudy VNIGRI no.179:161-329 '61. (MIRA 16:7)
(Timan Ridge--Foraminifera, Fossil)

TEODOROVICH, G.I.; BAGDASAROVA, M.V.; GROZDILOVA, L.P.; LEBEDEVA, N.S.; FOTIYEVA, N.N.

Stratigraphy of the Upper Tournaisian and Lower Visean stages on the western slope of the Southern Urals (Usuyli River layer). Dokl.AN SSSR 149 no.1:166-169 Mr '63. (MIRA 16:2)

1. Predstavleno akademikom A.L.Yanshinym.
(Ural Mountains--Geology, Stratigraphic)

SMIRNOV, G.A.; GROZDILOVA, L.P.; LEBEDEVA, N.S.; VOSHCHAKIN, M.A.

Characteristics of the boundary layers between the Tounaisian and Visean stages on the western slope of the central Urals. Dokl. AN SSSR 149 no.2:395-398 Mr '63. (MIRA 16:3)

1. Institut geologii Ural'skogo filiala AN SSSR. Predstavleno akademikom N.M.Strakhovym.

(Ural Mountains--Geology, Stratigraphic)

LEBEDEVA, N. S.

"Properties of Suspensions Formed in the Processing of Water and Their Influence on the Operation of Cleaning Installations." Cand Tech Sci, All-Union Scientific Inst of Water Supply, Sewerage, Hydraulic Structures, and Engineering Hydrogeology (VODGEO), Technical Directorate, Min Metallurgical and Chemical Industry Enterprises USSR, Moscow, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational

SO: SUM. No. 598, 29 Jul 55

LEBEDEVA, N.S., inzhener.

Increasing the mud-absorbing capacity of filtering materials.
Elek.sta. 25 no.12:45-46 D '54. (MLRA 7:12)
(Filters and filtration)

LEBEDEVA, N.S.

USSR/Chemical Technology - Chemical Products and Their Application. Water Treatment. Sewage Water, I-11

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62456

Author: Kastal'skiy, A. A., Lebedeva, N. S.

Institution: None

Title: Method for Computing Water Deironing Units

Original Periodical: Vodosnabzheniye i san. tekhnika, 1956, No 1, 14-19

Abstract: To oxidize Fe^{2+} dissolved in water the pH must be raised to 7.5 by removal by aeration of CO_2 excess dissolved in water and formed by decomposition of $Fe(HCO_3)_2$. Concentration of CO_2 removed from the water is computed as the difference between the analytically determined and the equilibrium CO_2, plus 1.57 c mg/l (c is concentration of Fe^{2+}). For removal of CO_2 are recommended film gas-removers packed with Raschig rings. Specific expenditure of air ~4 m^3 per one m^3 of water, optimal rate of flow 90 $m3/m^2$ per hour. Desorption coefficient can be determined by means of curves shown in the paper.

Card 1/1

LEBEDEVA, N.S.; BAGOTSKIY, Yu.B.

Study of a two-layer filter with great capacity. Vod.i san.tekh. no.7:1-5 Jl '57. (MIRA 10:11)
(Filters and filtration)

LEBEDEVA, N.S.

Double-layer filters of a high dirt-retaining capacity. Gaz. i vodopodg. no.3:38-74 '59. (MIRA 12:9)
(Filters and filtration)

LEBEDEVA, N., kand. tekhn. nauk; RUDENKO, G.; LITVINOV, N.

Testing two-stage filters at the Dnieper water-supply station. Zhil-komm. khoz. 9 no.3:16-17 '59. (MIRA 12:5)

1.Tekhnoruk ochistnykh sooruzheniy Dneprovskoy vodoprovodnoy stantsii, Kiyev (for Rudenko). 2.Nachal'nik laboratorii Dneprovskoy vodoprovodnoy stantsii, Kiyev (for Litvinov).
(Kiev--Filters and filtration)

LEBEDEVA, N.S.; BAGOTSKIY, Yu.B.

Preparing crushed anthracite for loading double-layer filters.
Vod. i san. tekh. no.11:28-30 N '59. (MIRA 13:3)
(Anthracite coal) (Filters and filtration) (Crushing machinery)

ANOSOVA, A.N.; BENSH, F.R.; GROZDILOVA, L.P.; DOBROKHOTOVA, S.V.; KALMYKOVA, M.A.; KIREYEVA, G.D.; LEBEDEVA, N.S.; MIKLUKHO-MAKLAY, A.D.; RAUZER-CHERNOUSOVA, D.M.; SHCHERBOVICH, S.F.

Revision of the taxonomy of the genus Schwagerina and genera close to it. Vop. mikropaleont. no.8:60-75 '64.

(MIRA 18:5)

L 1849-66 EWT(m)/EPF(n)-2/EWA(h)

ACCESSION NR: AT5022311 UR/3136/65/000/867/0001/0008

34
B+1

AUTHOR: Gorlov, G.V.; Kirillov, A.I.; Lebedeva, N.S.

TITLE: Neutron beam for measuring small-angle scattering cross sections

SOURCE: Moscow. Institut atomnoy energii. Doklady, IAE-867, 1965. Puchok neytronov dlya izmereniya secheniy rasseyaniya na malyye ugly, 1-8

TOPIC TAGS: neutron beam, neutron scattering, scattering cross section, differential cross section, collimator

ABSTRACT: Measurements of small-angle (1 — 5°) neutron scattering require that the detector of scattered neutrons be placed at a short distance from the main neutron beam, and for this reason it is desirable to have a well-defined neutron beam with a minimum halo. The article describes a device consisting of a rotating target cooled with liquid nitrogen and a collimator with a variable aperture for producing a narrow beam of medium-energy electrons suitable for measuring differential cross sections of small-angle neutron scattering (at angles as low as 0.5°). Measurements of the distribution of neutrons in the beam and its immediate vicinity were made with a beam of E_n = 4 MEV for a total vertical and horizontal opening of the beam of 1°

Card 1/2

L 1849-66
ACCESSION NR: AT5022311

(aperture of about 4×10^{-4} sterad; total neutron flux, $\sim 4 \times 10^{4}$ n/sec). Values of other parameters of the system are given. Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: NP

NO REF SOV: 000 OTHER: 000

Card 2/2

L 00019-66 EWT(m)/EPA(w)-2/EWA(m)-2 IJP(c)

ACCESSION NR: AP5021369 UR/0120/65/000/004/0221/0222
621.384.664

24
22
B

AUTHOR: Gorlov, G. V.; Kirillov, A. I.; Lebedeva, N. S.

TITLE: The design of a gas target for electrostatic accelerators 19,65

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1965, 221-222

TOPIC TAGS: electron, particle accelerator target

ABSTRACT: In numerous physical experiments with monoenergetic electrons it is advantageous to utilize gas targets. This paper describes the design of such a gas target intended for electrostatic generators. The use of a diaphragm pump allows an efficient cooling of the foil at the input window of the target and this significantly increases the maximum current incident on the target. With the nickel foil being 1.35 mg/cm^2 thick and deuterium pressure within the target being 700 Torr, the deuteron current reached 10 μA with an energy of 1.4 MEV. The target is relatively simple to make and reliable in operation. Orig. art. has: 2 figures.

Card 1/2

L 00019-66

ACCESSION NR: AP5021369

2

ASSOCIATION: Institut atomnoy energii GKAE, Moscow (Institute of Atomic Energy, GKAE)

65

SUBMITTED: 01Jul64 ENCL: 00 SUB CODE: NP

NO REF SOV: 000 OTHER: 000

Card 2/2

L 36413-66 EWT(m)/T

ACC NR: AP6021993 SOURCE CODE: UR/0120/66/000/003/0027/0030

AUTHOR: Gorlov, G. V.; Kirillov, A. I.; Lebedeva, N. S.

ORG: Institute of Atomic Energy, GKAE, Moscow (Institut atomnoy energii GKAE)

TITLE: Generation of a neutron beam for measuring small-angle-scattering cross-section

SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1966, 27-30

TOPIC TAGS: neutron beam, neutron scattering, scattering cross section

ABSTRACT: A diagram is shown of a liquid-nitrogen-cooled rotary target and a variable-aperture wedge-shaped-canal collimator, which are intended for generating small-angle medium-energy neutron beams. The beams are used for measuring differential small-angle-scattering (up to 0.5°) cross section. Results are reported of measuring the shape of collimated neutron beam, from a D-D reaction: E_n = 4 Mev; aperture, 1° (solid angle, 0.0003 ster). The neutron-density distribution in the beam is practically rectangular. Total collimator flux, 4 x 10^5 neutrons/sec; E_d = 1400 kev; energy loss in the heavy-ice layer, ΔE = 400 kev; deutron current, 40 μa; total target yield, 1.7 x 10^9 neutrons/sec. Orig. art. has: 2 figures. [03]

SUB CODE: 18 / SUBM DATE: 11May65/ ATD PRESS: 5038

Card 1/1 UDC: 621.039.556

L 46983-66 EWP(k)/EWT(m)/T/EWP(w)/EWP(t)/ETI IJP(c) JD/HW

ACC NR: AT6024914 (A,N) SOURCE CODE: UR/2981/66/000/004/0057/0064

AUTHOR: Archakova, Z. N.; Kovrizhnykh, V. G.; Sandler, V. S.; Shvets, V. A.; Lebedeva, N. S. 44 B+1

ORG: none

TITLE: Effect of heating conditions preceding quenching and of the degree of cold deformation after quenching on the mechanical properties and structure of pressed sections of VAD23 alloy 16 18

SOURCE: Alyuminiyevyye splavy, no. 4, 1966. Zharoprochnyye i vysokoprochnyye splavy (Heat resistant and high-strength alloys), 57-64

TOPIC TAGS: METAL DEFORMATION, aluminum alloy, metal pressing, metal heat treatment / VAD23 aluminum alloy

ABSTRACT: The relationship between the structure, mechanical properties, and heating conditions prior to the quenching of pressed sections of VAD23 alloy was determined. The temperature of heating for quenching of pressed semifinished products should be maintained between 515 and 525°C. The elongation coefficient during pressing of sections with a flange thickness up to 10 mm should be between 15 and 25. Straightening of the sections after quenching by the extension method with a degree of deformation of 1-4% decreases the strength characteristics of sections of VAD23 alloy by 2-4 kg/mm^2 without much change in elongation per unit length. High degrees of cold deformation do 12

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L 46983-66

ACC NR: AT6024914

not lead to a further change in mechanical properties. A second quenching changes the strength properties of pressed sections from +1.7 to -11.6 kg/mm^2 and the elongation from +0.9 to -4.5%. The negative effect of overquenching is greater the higher the elongation coefficient during pressing and the degree of cold deformation after the first and second quenching. It is concluded that in preparing pressed semifinished products from VAD23 alloy, it is necessary to limit the degree of deformation during straightening by extension after quenching to 3% and to avoid a second quenching. Orig. art. has: 7 figures and 1 table.

SUB CODE: 11/ SUBM DATE: none

Card 2/2

V

ACC NR: AT6001557 SOURCE CODE: UR/3136/65/000/901/0001/0004

AUTHOR: Lebedeva, N. S.

ORG: none

TITLE: Analysis of polarization in a neutron beam by scattering in a Coulomb field of a nucleus

SOURCE: Moscow. Institut atomnoy energii. Doklady, IAE-901, 1965. Analiz polyarizatsii v puchke neytronov rasseyaniyem na kulonovskom pole yadra, 1-4

TOPIC TAGS: nuclear dispersion, Coulomb field, neutron beam, ~~polarization~~ NUCLEAR SCATTERING

ABSTRACT: Based on the work by J. Schwinger (Phys. Rev. 73, 1948, p. 407), the author shows that if we assume that the amplitude of elastic small-angle scattering-- ($< 10^\circ$) does not depend on the neutron spin, that the imaginary part of the amplitude of small-angle nuclear scattering can be replaced by the value for forward scattering, and that Schwinger's expression determines the amplitude of Coulomb scattering, then the differential cross-section of scattering of a neutron beam with a polarization of $P = Pn_2$ by a nucleus with a charge Z can be expressed as follows:

$$\frac{d\sigma}{d\Omega}(\theta,\varphi)=|f_n(\theta)|^2+|f_{Coul}(\theta)|^2-P\frac{2}{n}\sigma_t\left|\frac{\mu_n}{2}\right|\frac{Ze^2}{Mc^2}ctg\frac{\theta}{2}\cos\varphi \quad (1)$$

Card 1/2

ACC NR: AT6001557

where M is the mass, χ is the wave number, $|\mu_n| = 1.91$ (magnetic moment of neutron), and σ_t is the total interaction cross-section between neutrons and nucleus. The author concludes that by using the Coulomb scattering by nuclei for determining the polarization of neutron beam, the experiment can be reduced to the measurement of the total and differential cross-sections at two points. Orig. art. has: 4 formulas.

SUB CODE: 18 / SUBM DATE: none/ OTH REF: 001

Card 2/2

ACC NR: AR7004873 SOURCE CODE: UR/0276/66/000/009/B042/B042

AUTHOR: Archakova, Z. N.; Kovrizhnykh, V. G.; Sandler, V. S.; Shvets, V. A.; Lebedeva, N. S.

TITLE: The effects of heating conditions prior to hardening and the amount of cold deformation after hardening on the mechanical properties and structure of pressed sections of VAD23 alloy

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 9B267

REF SOURCE: Sb. Alyumin. splavy. M., Metallurgiya, vyp. 4, 1966, 57-64

TOPIC TAGS: heat effect, cold hardening, mechanical property, cold deformation, alloy

ABSTRACT: Dependence was established between the structure, mechanical properties, and conditions of preheating of pressed sections of the VAD23 alloy prior to hardening. It was recommended that the hardening temperature be maintained within the 515--525 C range. The extrusion ratio is set at 15--25 for a section with a flange up to 10 mm thick. The straightening of sections, following

Card 1/2 UDC: 621.785.6.001.5

ACC NR: AR7004873

hardening by stretching with an amount of deformation of 1—4%, reduces the strength characteristics of the sections by 2—4 kg/mm^2; change in the per unit elongation. No changes in mechanical properties occur following higher degrees of cold deformation. Repeated hardening does change the strength characteristics of the pressed sections from +1.7 to -11.6 kg/mm^2 and the per unit elongation from +0.9 to -4.5%. The negative effect of repeated hardening increases with increase in the extrusion ratio and the amount of cold deformation following primary and secondary hardening. Orig. art. has: 7 figures. [Translation of abstract] [AM]

SUB CODE: 11, 13/

Card 2/2

ACC NR: AP7009664 SOURCE CODE: UR/0386/67/005/004/0131/0133

AUTHOR: Gorlov, G. V.; Lebedeva, N. S.; Morozov, V. M.

ORG: none

TITLE: Small angle elastic scattering of polarized 4-Mev neutrons by medium and heavy nuclei

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 5, no. 4, 1967, 131-133

TOPIC TAGS: neutron scattering, elastic scattering, small angle scattering, Coulomb interaction, neutron polarization, magnetic moment, differential cross section

ABSTRACT: The authors report experiments aimed at investigating the elastic scattering of polarized 4-Mev neutrons by Cu, In, Sn, Pb, Bi, and U nuclei at scattering angles 2 - 21°. The polarized-neutron source was the D-D reaction (the polarization of the scattered neutrons was ~14.8%). It was found that for all the investigated nuclei the differential cross section shows an appreciable rise at $\theta = 2°$, and in scattering through angles $\theta \leq 6°$ the polarizing ability is appreciable and increases with decreasing angle. The polarizing ability of nuclei in the angle region 2 - 9° is found to be in good agreement with predictions by Schwinger (Phys. Rev. v. 73, 407, 1948) with respect to Coulomb scattering of neutrons at small angles, due to the interaction of the magnetic moment of the moving neutron with the Coulomb field of the nucleus. The contribution of the Coulomb cross section at larger scattering angles

ACC NR: AP7009664

is negilgibly small. The experimentally observed behavior of the differential cross sections can thus be well described under the assumption that only nuclear and Coulomb scattering exist. Extrapolation to zero angle shows that at 4-Mev neutron energy the fraction of the contribution of the square of the real part to the cross section of forward nuclear-potential scattering is small for the investigated nuclei. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 20Nov66/ ORIG REF: 003/ OTH REF: 004

Card 2/2

ACC NR: AP6020689 SOURCE CODE: UR/0016/66/000/006/0121/0126

AUTHOR: Balykova, L. A.; Verkholetova, G. P.; Lebedeva, N. S.; Limanov, V. Ye.; Starkov, A. V.

ORG: Central Disinfectant Research Institute, Moscow (Tsentral'nyy nauchno-issledovatel'skiy dezinfektsionnyy institut)

TITLE: Solubility and bactericidal activity of 1,3-dichloro-5,5-dimethyl hydantoin in the presence of surface-active substances

SOURCE: Zh mikrobiol, epidemiol i immunobiol, no. 6, 1966, 121-126

TOPIC TAGS: bactericidal ~~compound~~, solubility, surface active agent, ~~substance/Sulfonol~~, ~~OP-10, Tetramon~~ chlorinated organic compound

ABSTRACT: The water solubility of this compound increased considerably in the presence of such surface-active compounds as sulfonol, OP-10, and tetramon. In the presence of sulfonol, aqueous solutions of dichlorodimethylhydantoin did not lose their active chlorine content or their high bactericidal and sporicidal activity, even after standing. [WA-50; CBE No. 10]

SUB CODE: 06/07/SUBM DATE: 16Feb65/ ORIG REF: 001/ OTH REF: 010/

Card 1/1 UDC: 615.778.38-011+615.778.38-017.78]:661.85

LEBEDEVA, N.T.

Biological examination of painted toys as a method of hygienic evaluation. Trudy LSGMI 31:174-186 '56. (MIRA 12:8)

1. Kafedra shkol'noy gigiyeny Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav.kafedroy - prof. A.Ya.Gutkin).
(PLAY,
biol. exam. of painted toys (Rus))

LEBEDEVA, N.T., dotsent, kand.med.nauk

Hygienic characteristics of kindergartens in Stalino using gas appliances. Gig. i san. no. 10:32-37 O '60. (MIRA 13:12)

1. Iz kafedry gigiyeny detey i podrostkov Stalinskogo meditsinskogo instituta.

(SCHOOL HYGIENE) (CARBON DIOXIDE)

GLAUER, G.A., assistent; LEBEDEVA, N.T., dotsent; NIKOLAYEV, A.N., assistent; PREOBRAZHENSKAYA, N.N., assistent; RODINA, A.P., assistent; RUDAL'TSEVA, N.N., assistent; FIGLIN, L.I., dotsent; KHRAMTSOVA, A.D., assistent

"Handbook for school physicians" by M.D. Bol'shakova and others. Reviewed by G.A. Glauer and others. Gig. i san. 25 no. 5:117-120 My '60. (MIRA 13:10)

(SCHOOL HYGIENE) (BOL'SHAKOVA, M.D.)

LEBEDEVA, N.V.

Connection between the vegetation and movement of water in swamps.
Bot.zhur. 42 no.4:635-639 Ap '57. (MLRA 10:5)

1.Institut biologii Karelo-Finskogo filiala Akademii nauk KSSR, Petrozavodsk.
(Swamps) (Soil percolation)

LEBEDEVA, N.V.

Development of extensive bog areas and their water-conducting network at the foot of slopes (based on the study of bogs of the Korza Lowland). Trudy Kar. fil. AN SSSR no.15:49-57 '59.
(MIRA 12:10)

(Korza region--Peat bogs)

S/078/62/007/012/010/022
B144/B180

AUTHORS: Nazarenko, V. A., Lebedeva, N. V., Biryuk, Ye. A., Shustova, M.B.

TITLE: Complex compounds of multivalence metals with trioxyfluorones

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 12, 1962, 2731-2738

TEXT: The complex formation between GeO_2, $ZrOCl_2$ or $SbCl_3$ and phenyl fluorone and between $Sc_2(SO_4)_3$ and propyl fluorone was studied spectroscopically in acid media after stabilization with gelatine to ascertain whether the metal ion substitutes two H atoms in the diphenol or one H atom in the o-hydroxyquinone. A new scheme, based on the solubility product, is given for the evaluation of the spectrophotometric data; this was necessary because of the low solubility of the complexes. The complex formation with Zr was studied in 0.2 - 0.8 N HCl and showed that only a 1:2 complex forms (optimum 0.2 - 0.3 N HCl). This was confirmed by both the isomolar series and the molar ratios. The Zr complex is thus consistent with other Me^{IV} trihydroxy fluorone complexes. A study of the change in optical density as a function of the pH showed that only one H

atom is substituted, namely, at C_7 of the phenol group, and that a donor-acceptor bond is established with the quinone oxygen at C_6 with formation of a 5-membered ring. There are 7 figures and 4 tables.

SUBMITTED: February 26, 1962

Card 2/2

NAZARENKO, V.A.; FLYANTIKOVA, G.V.; LEBEDEVA, N.V.

Ionic state of germanium in weak acid solutions. Ukr.khim.zhur. 28 no.2:266-267 '62. (MIRA 15:3)

1. Institut obshchey i neorganicheskoy khimii AN USSR, laboratoriya v Odesse.
(Germanium) (Ions--Migration and velocity)

Country : USSR
Category : Cultivated Plants. Potatoes. Vegetables. Melons. M

Abs Jour : RZhBiol., No 6, 1959, No 24871

Author : Lebedeva, N. V.
Inst : Tadzhik Scientific-Research Institute of Horticulture, Viniculture and Subtropical Cultures.
Title : Concerning Potato Varieties in the Valley of Gissar.
Orig Pub : Buyl. nauchno-tekhn. inform. Tadzh. n.-i. in-t sadovodstva, vinogradarstva i subtrop. kul'tur, 1957, vyp. 1, 78-80
Abstract : From the year 1950, at the experimental base near Stalinabad, 300 varieties of cultivated and South-American potatoes were experimented upon. Early varieties under local conditions quickly degenerated; the varieties Waltman and Hero proved to be more stable. The South-American varieties appeared to be fully suitable for a two-harvest cultivation; after 3 years of experimentation, their

Card : 1/2

Country : USSR
Category : Cultivated Plants. Potatoes. Vegetables. Melons. M

Abs Jour : RZhBiol., No 6, 1959, No 24871

Author :
Inst :
Title :

Orig Pub :

Abstract : yield increased considerably, and the tubers' taste is quite satisfactory. Variety Khibina-3 is also more resistant under local conditions and produced, in the first 10 days of June, a harvest of 200 c/ha; from the summer planting of unsprouted fresh tubers, its harvest was 88 c/ha. Hybrids of South-American species and selective varieties of S. tuberosum have favorable prospects. -- Ye. A. Okorokova

Card : 2/2

LEBEDEVA, N. V. Cand Agr Sci -- "On the problem of increasing the productivity of the spike." Len, 1961 (All-Union Order of Lenin Acad Agr Sci im V. I. Lenin. All-Union Sci Res Inst of Plant Cultivation). (KL, 4-61, 204)

L 21865-65 EWT(1)/FCC GW

ACCESSION NR: AT4049309 S/2546/64/000/136/0027/0045

AUTHOR: Lebedeva, N.V.

TITLE: The possibility of spatial forecasting of cloud cover and precipitation in the Soviet Far East

SOURCE: Moscow. Tsentral'ny*y institut prognozov. Trudy*, no. 136, 1964. Voprosy* obrazovaniya i prognoza oblakov i tumanov (Problems in the formation and forecasting of clouds and fogs), 27-45

TOPIC TAGS: spatial weather forecasting, cloud cover, prognostic condensation chart, prognostic convection chart, synoptic forecasting

ABSTRACT: The article compares the success achieved by the methods of Showolter, Simila, and Faust in establishing instability for a period of 10 days in 1958 in European Russia. Refinements to the procedure for plotting prognostic condensation and convection charts for the Soviet Far East are then described, and the correctness of these charts for the Soviet Far East is evaluated on the basis of airborne experiments in 1959. An improved method for plotting prognostic cloud cover and precipitation charts is proposed. Regions of possible development of convection obtained by all the aforementioned methods were compared

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